





ULTRASONIC ALARM SYSTEMS

How the Kidde Ultrasonic System Works:

Movement changes sound wave patterns.

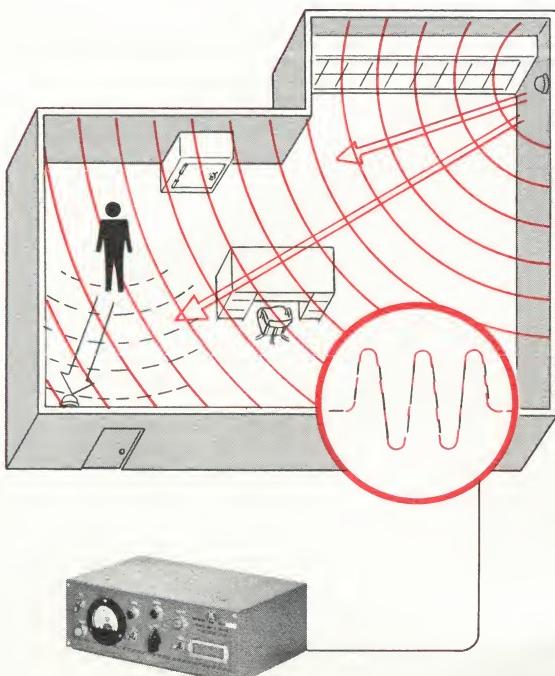
This is the infallible principle of the Kidde Ultrasonic Alarm.

The area protected by the Kidde system is saturated with ultrasonic energy (sound waves just above the range of human hearing). So long as nothing within the area moves, the "sound" received by the Ultrasonic system is the same as that transmitted. But at the slightest motion, the sound pattern is disturbed, the system notes the difference, and a local or remote alarm is sounded.

Lock-ins — burglars who conceal themselves on the premises until after closing hours — are foiled by the Kidde Ultrasonic as effectively as break-ins. No matter how well he is hidden, once the lock-in emerges from his place of concealment, his motion causes an alarm . . . and he is trapped!

UNOBTRUSIVE . . . TAMPERPROOF . . . FLEXIBLE

It is virtually impossible for an intruder to tell that Kidde Ultrasonic protection is on the job, so unobtrusive are its components. Yet even if he were aware of its presence, he could do nothing to reduce the system's effectiveness. It is fully tamperproof. Disconnecting any part or cutting off the power causes an alarm. Yet a glance at a remote monitor and the flick of a switch can give immediate assurance that the system is in full working order.



Main banking room, Newport Harbor Bank, Corona del Mar, Calif. Inconspicuous Kidde Ultrasonic receiver and transmitter can be seen on ceiling at upper right.

Bank official checks Kidde Ultrasonic Alarm's test switch at master control unit.

RANGE OF APPLICATION

The basic Kidde Ultrasonic Alarm System consists of four major units: transmitter, receiver, master control and monitor or local alarm, or both. The transmitters and receivers are housed in small metal domes, about six inches in diameter, which may be painted to match the room decor and are mounted on walls, ceilings or columns in the protected area. The receiver "listens" continuously to the inaudible sounds from the transmitter and the "echoes" that bounce off all stationary objects in the area. These sounds stay on the same frequency — 19,000 vibrations per second — so long as nothing they strike is moving.

The number of transmitters and receivers used depends on the size and shape of the area. They are connected to an electronic master control unit, about the size of a portable radio. One master control unit can protect an area of up to 4,000 square feet and a volume of up to 60,000 cubic feet. Adding a power amplifier to drive up to 24 transmitters will increase the protective range of the system to 12,000 square feet and 180,000 cubic feet. Complete flexibility permits larger or smaller installations to meet the exact protection requirements.

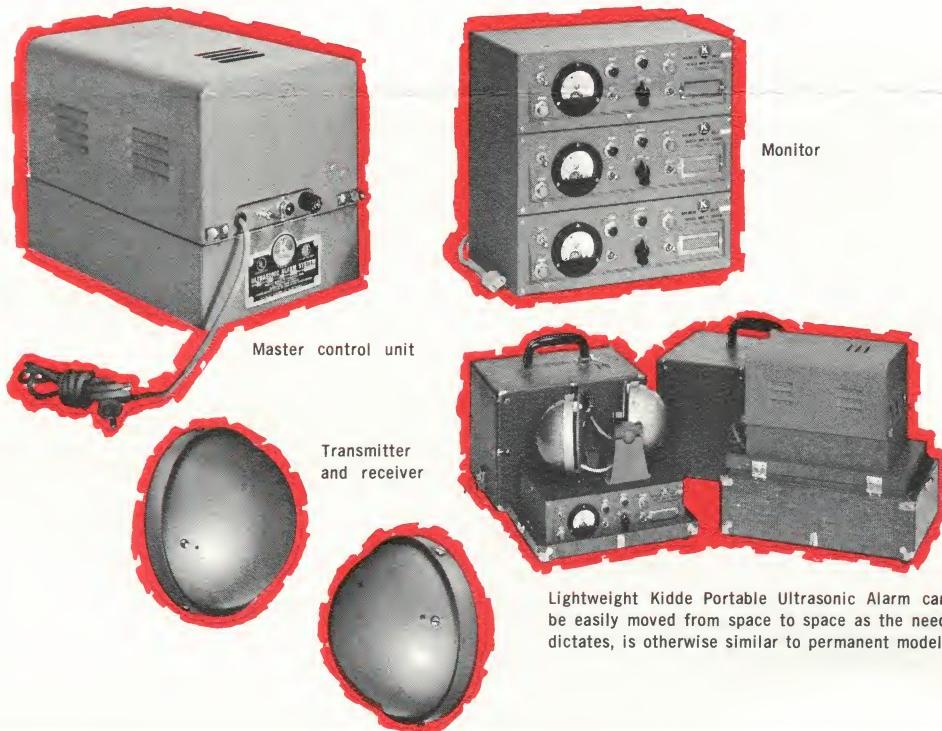
In square, open rooms of moderate size, one transmitter and receiver will provide ample coverage. If the room were filled with sound-absorbing materials such as furs, or if hard goods were stacked nearly to the ceiling, it might be necessary to install additional transmitters and receivers to assure the even distribution of ultrasonics throughout the area.

The Kidde Ultrasonic Alarm System operates on ordinary lighting current of 60 cycles, 110 volts, with an electrical load no greater than that required for a single light bulb. A standby power supply, to maintain the system even when normal power is interrupted, is available.

INSTALLATION AND SERVICE

Kidde Ultrasonic Alarm System components bear the Underwriters' Laboratories label and are designed to be self-guarding and fail-safe. They can be used to trigger a local alarm or to transmit a signal to a guard station, police department or central office alarm company.

Kidde's network of approved distributor-installers assures skilled, reliable installation and service throughout the United States and abroad.



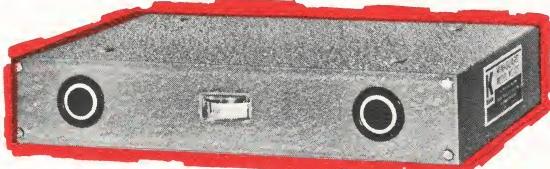
APPLICATIONS

Record vaults
Warehouses
Museums
Art galleries
Banks
Executive offices
Laboratories
Libraries
Jewelry wholesalers and retailers
Medical supply houses
Department stores
Schools, colleges and universities
Government facilities
Churches

... and other sensitive
or high security areas

OTHER SPECIALIZED INTRUSION AND FIRE PROTECTION

Kidde Mini-Guard. An extremely compact ultrasonic system for the monitored protection of display cases, cabinets, doorways, small rooms and access areas to safes. A self-contained, transistorized unit, Mini-Guard eliminates interconnecting wires except those to the monitoring or signaling device and fits conveniently on shelf, bookcase or cabinet top.



Kidde Mini-Guard

Kidde Prox-O-Larm. Provides perfect intrusion protection for metal file cabinets and safes. It monitors the electrical capacitance between the metal units and the ground, requiring only the close approach of an intruder to disturb this capacitance and sound the alarm. Compact, yet extremely sensitive, one Prox-O-Larm guards as many as 40 four-drawer file cabinets.



Kidde Prox-O-Larm

Kidde Lyne-O-Larm. For economical intrusion detection — photoelectrically. Lyne-O-Larm transmits an invisible beam of infra-red light. Once an intruder "breaks" this beam, an alarm is sounded either locally or at any control point. Available in indoor, outdoor and portable models. All combine high sensitivity with exceptional reliability and long life.



Kidde Lyne-O-Larm

Kidde Fyrindex. For fire detection in local areas. The electro-mechanical Kidde Fyrindex is actuated by rapid temperature rise, by abnormally high temperature, or by a combination of both of these factors. Fyrindex detectors are easy to install, can be painted without loss of effectiveness and provide coverage up to 2,500 square feet. Special temperature settings available.

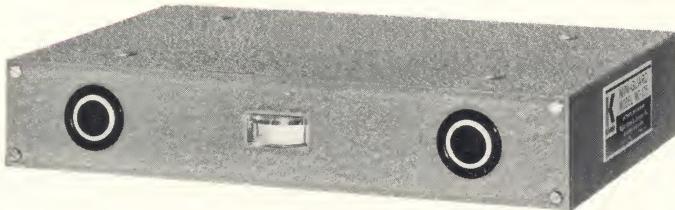


Kidde Fyrindex

Kidde Atmo. For large plant areas, Kidde Atmo provides early, accurate warning of fire. Heart of the system is .080" diameter copper tubing that can be mounted inconspicuously on walls or ceilings and even be painted to match room decor. The surge of hot air from a beginning fire causes an expansion of air in the tubing which then closes a diaphragm switch and triggers a local or remote alarm. Kidde Atmo will function even with ruptured tubing and does not have to be replaced after operating. The electrical portion of the system includes standby batteries that go to work automatically in case of outside power failure.



WALTER KIDDE & COMPANY, INC., BELLEVILLE, N. J. 07109

Kidde**MINI-GUARD****ULTRASONIC INTRUSION ALARM**CAT. SHEET #AL614
JAN. 64**MODEL #
MC-125B****MC-125B
MINI-GUARD**

**AN IDEAL UNIT FOR
PROTECTION OF AREAS SUCH
AS DOORWAYS, DISPLAY CASES,
SMALL ROOMS, SAFES ETC.**

**A NEW
DIMENSION
IN
ULTRASONIC
MOTION DETECTION
COMPLETE IN ONE
PACKAGE FOR SMALL AREAS**

- **SMALL**
- **TAMPER PROOF**
- **LIGHTWEIGHT**
- **PORTABLE**
- **CONTROLLABLE SENSITIVITY**
- **LOW POWER CONSUMPTION**
- **EASY TO INSTALL, OPERATE AND TEST**
- **BUILT-IN BATTERY STANDBY**

DETECTS ANY MOTION: Protected zone is flooded with inaudible sound assuring complete protection.

TEMPORARY OR PERMANENT PROTECTION: So easy to set up, the MINI-GUARD can be used to protect an area overnight or for longer periods, and then be moved to another area.

EASY TO INSTALL: Self contained, the unit eliminates many interconnecting wires normally used on a protective system.

LOCAL OR CENTRAL STATION: All necessary connection points are provided on the rear of the MINI-GUARD for either system or a combination of both.

BUILT-IN METER: Attractive edgewise panel meter monitors system and can be illuminated during an alarm.

LONG LIFE: Cool transistorized circuit uses little power, assuring long trouble free service life.

INAUDIBLE: Operating at a frequency above the range of hearing the MINI-GUARD does not reveal itself to intruders.

COMPACT: This neat little package fits conveniently on a file cabinet, shelf, bookcase or other convenient location.

Now you can put Ultrasonics to work in small zones which require the best in protection.

Years of experience in the Ultrasonic Intrusion detection field have enabled Kidde engineers to develop the new small, reliable MC-125B MINI-GUARD. It will answer the need for a motion detector that is versatile enough to be used for the protection of a small space where protection is needed either overnight or for a continuing period of time.

Powered by an external 12V transformer which can be

plugged into a nearby outlet, low voltage wires may be run to the terminals on the MINI-GUARD. The unit is then placed at a convenient spot facing the area to be protected. Wires for the local system, central office, or both are then connected and the system is ready. No other interconnecting wires are needed.

When the power switch on the rear is turned on, the zone is saturated with high frequency, inaudible sound. A moving object within the protected zone echoes tell-tale signals of a different frequency which trigger the alarm.

MINI-GUARD
ULTRASONIC INTRUSION ALARM

A special feature of the system is that the sound will not penetrate the walls or other boundaries. This prevents false alarms from motion outside the area of protection and assures detection of an intruder in the protected area. For example, a small office may be protected in a store and yet employees and shoppers may walk in the adjacent area without tripping the unit. Sensitivity adjustment is provided so that the protected zone may be reduced if desired from the normal 12 ft. distance in front of the MINI-GUARD.

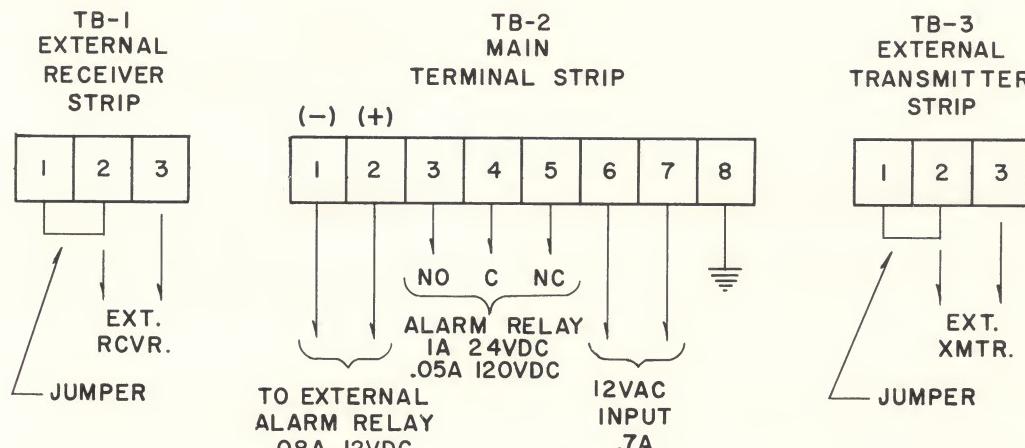
Should the A.C. power fail, a built-in self charged battery will continue operation of the built-in relay circuit for several hours. When the A.C. power in the building is restored it automatically takes over operation of the system and recharges the battery.

The meter may be used to test the system by walking through the protected zone and watching it fall from about center scale toward the zero reading. A separate

switch on the rear of the unit connects a lamp in the meter which illuminates it during an alarm condition. A built-in single pole double throw alarm relay is provided for any type of central station or local alarm connection. A tamper switch in the unit will sound the alarm if an unauthorized person tries to disarrange the system. An internally powered circuit may be used to energize, upon alarm, a 12 volt external relay where the occasional need for an additional alarm circuit exists.

External transducers may be used with the MINI-GUARD if it is desirable to conceal the control unit itself. By removing the jumpers from the terminal strips, shown below, the transducers may be connected and placed up to 12' from the MC-125B. The external transducers may be flush mounted in the ceiling or wall and placed up to 6' apart.

Here then is the unit for positive economical protection of small areas. Simple to install and use, it will provide years of silent sure operation.



ORDERING INFORMATION

UNIT	PART #	APPROX. SIZE	APPROX. SHIPPING WT.
MC-125B MINI-GUARD	630126	2 3/8" H x 12" W x 9 3/8" D	8#
ACCESSORY EQUIPMENT			
EXTERNAL TRANSDUCER WITH 12' CABLE (2 REQUIRED)	615109	7/8" LONG x 1" DIA.	1/2# EA.
12V PLUG-IN TRANSFORMER	517146-1	2 1/4" H x 2 5/8" W x 2 3/4" D	1#
12V BOX MOUNTED TRANSFORMER	517146	2 1/4" H x 2 5/8" W x 2 3/4" D	1#

Walter Kidde & Company, Inc.

MIDWEST REGIONAL OFFICE
1310-20 West Randolph
Chicago, Illinois 60607

BELLEVILLE, N. J. 07109

WEST COAST REGIONAL OFFICE
4845 West Exposition Boulevard
Los Angeles, California 90016



Alarms Products



Walter Kidde & Company, Inc., Belleville, N. J. 07109

ULTRASONIC ALARM EQUIPMENT

PRICE LIST

<u>Part #</u>	<u>Cat. Pg.</u>	<u>Model & Description</u>	<u>Price</u>
			<u>List</u>
			Any Quan.
<u>MASTER CONTROL UNIT</u>			
630120	AL 610	MC-120, Master Control, General Purpose Unit	425.00
630120-1	AL 610	MC-120-1 Master Control, Compensates for low Velocity Steady Turbulence	440.00
630030	AL 610	PA-30, Power Amplifier (for use w/above)	162.50
<u>RECEIVER TRANSDUCERS</u>			
615210	AL 611	PU-210, Standard	30.00
615211	AL 611	PU-210-1, Standard, less Tamper	28.00
615212	AL 611	PU-211, w/Potentiometer	34.00
615213	AL 611	PU-211-1, w/Potentiometer, less Tamper	32.00
<u>TRANSMITTER TRANSDUCERS</u>			
615214	AL 611	SP-310, Double Rod, w/Test Motor	50.00
615215	AL 611	SP-310-1 Double Rod, w/Test Motor, less Tamper	48.00
615216	AL 611	SP-311, Double Rod, less Test Motor	38.00
615217	AL 611	SP-311-1, Double Rod, less Test Motor, less Tamper	36.00
615218	AL 611	SP-312, Single Rod, w/Test Motor	42.00
615219	AL 611	SP-312-1, Single Rod, w/Test Motor, less Tamper	40.00
615210	AL 611	SP-313, Single Rod, less Test Motor	30.00
615211	AL 611	SP-313-1, Single Rod, less Test Motor, less Tamper	28.00
<u>REAR PANELS</u>			
615630	AL 613	RP-630, Plug-in Connections	45.00
615630-1	AL 613	RP-630LE, Plug-in Connections (Requires LE-834)	60.00
615631	AL 613	RP-631, Terminal Connections	42.00
615631-1	AL 613	RP-631LE, Terminal Connections (Requires LE-834)	57.00
615631-3	AL 613	RP-631BA, Terminal Connections (used with PA-30)	42.00
615631-1	AL 613	RP-631-1, Terminal Connections, less Test Relay	38.00
615632	AL 613	RP-632, unwired, Plug-in Connections	30.00
615633	AL 613	RP-633, unwired, Terminal Connections	16.50
615637	AL 613	RP-637, Terminal Connections & Test Lamp, Local	20.00
615637-1	AL 613	RP-637BA, Terminal Connections & Test Lamp (used with PA-30)	20.00
615646	AL 613	RP-646, Plug-in Connections (used with C.S.U.)	70.00
615647	AL 613	RP-647, Terminal Connections (used with C.S.U.)	55.00
<u>MINI-GUARD & ACCESSORIES</u>			
630126	AL 614	MC-125B Mini-Guard (with Battery)	250.00
615109	AL 614	External Transducer with 12' Cable (ea.)	12.50
517146-1	AL 614	12 V. Plug-in Transformer	5.85
517146	AL 614	12 V. Box Mounted Transformer	5.85
615853	AL 614	Replacement Battery Assembly for MC-125B	10.00
615912	AL 614	Horn Assembly for MC-125B Demo.	12.00
519298	AL 614	Carrying Case for MC-125B	12.00
522021	AL 614	Laminated Photo of MC-120	3.00

<u>Part #</u>	<u>Cat. Pg.</u>	<u>Model & Description</u>	<u>Price</u>
			<u>List</u>
			<u>Any</u>
			<u>Quan.</u>
<u>PORABLE ULTRASONIC</u>			
615900	AL-612	Portable Ultrasonic System with Monitor and Carrying Cases	850.00
<u>STANDBY POWER EQUIPMENT</u>			
630700	AL 613	BS-700 Automatic Inverter and Trouble Charger (Requires Battery)	140.00
513101	AL 613	SB-13 Wet Cell Battery for BS-700 (6V, 100 AH)	75.00
615702	AL 613	BS-701 Dry Cell Standby for MM-602 w/Harness	15.00
514209	AL 613	MC-BC1 Wall Cabinet for MC-120 & BS-700	50.00
514137	AL 613	BC1 Wall Cabinet for SB-13 Battery	36.00
<u>MONITORING EQUIPMENT</u>			
630602	AL 613	MM-602 Remote Monitor (Requires Rear Panel)	175.00
615844-2	AL 613	LE-834 Line Extender (Requires Rear Panel)	30.00
615860	AL 613	CSU-840 Carrier Supervisory Unit	120.00
615821	AL 613	CB-821 Trip Unit for Second Monitor	25.00
<u>TRANSDUCER MOUNTING BRACKETS</u>			
615930	AL 613	MB-901 Swivel Mounting Bracket w/Shock Mounts	6.00
615905	AL 613	MB-905 Fixed Plane Bracket w/Shock Mounts	5.00
<u>MULTI-CONDUCTOR TRANSDUCER CABLE</u>			
518207	AL 613	2S2 Two Conductor Cable (Shielded) Per 100 ft.	10.00
518102	AL 613	4S2 Four Conductor Cable (2 Shielded) Per 100 ft	12.00
518109	AL 613	Six Conductor Cable (2 Shielded) Used w/Test Motor Transducers Per 100 ft.	14.00
<u>ACCESSORY EQUIPMENT</u>			
615802	AL 613	TO-830 Transistorized Tone Oscillator for Walk Test	60.00
615455	AL 613	PB-455 Connection Box for Multiple Receiver Lines	30.00
615911	AL 613	RC-908 Relay Current Meter for Master Control	15.00
615906	AL 613	TC-906 Transducer Charger (Includes Battery)	15.00
615858	AL 613	FS-838 Field Strength Indicator	60.00
512116	AL 613	Chart Recorder w/30 Day Chart	140.00
512117	AL 613	30 Day Chart for Chart Recorder	6.00

Effective January 1, 1965

Terms on the above indicated equipment are Net 30 days, f.o.b. shipping point. Subject to credit approval and change without notice. Standard Commercial Packing.

Thank you

for your interest in Kidde products.

Here is the literature you requested. We hope it fully answers your questions and helps you reach a decision on the value of our service and products.

You may require additional details or specifications. If so, please fill out the back of the reply card attached below. Just drop it in the mail, no postage is necessary and we promise an immediate reply.



Walter Kidde & Company, Inc.

Belleville, New Jersey

Regional Offices: Atlanta, Boston, Chicago, Dallas, Detroit,
Los Angeles, New York, Philadelphia

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WALTER KIDDE & COMPANY, INC.

675 MAIN STREET, BELLEVILLE, NEW JERSEY
07109

FIRE EXTINGUISHING EQUIPMENT

- P-72 Catalog
- P-79 Training Your Fire Brigade
- P-90, P-91, P-92, P-93 Labels
- P-104 ABC Chart
- P-103 Kidde Fire Extinguisher Cabinets
- P-105 Kidde Fire Hose
- M-10 Your Uninvited Guest
- M-12 Tips for Safer Cruising
- I-19 Engineered Fire Extinguishing Equipment
- I-26 Recipe for Kitchen Safety
- I-37 Kidde Kitchen Sentinel
- I-34 Kidde Model G-1 Smoke Detecting System
- I-44 Kidde Hi-Ex Foam

ALARMS AND DETECTION EQUIPMENT

- AL-56 Kidde Fire Alarm, Burglar and Intrusion Detection Equipment
- AL-611 Ultrasonic intrusion alarm system
- AL-621 Photo electric intrusion alarm system
- AL-631 Proximity capacitance alarm system
- AL 641 Surveillance Camera
- AL-691 Intrusion alarm accessory devices
- AL-211 Local and remote fire alarm systems
- AL-231 Fyrindex fire detector
- AL-241 Home fire alarm system
- AL-251 Atmo pneumatic fire detection system
- AL-271 Continuous strip thermistor type overheat and fire detection system

Please
send:

- literature _____
(See list above for available literature & bulletin numbers)
- specific details on _____

- I would like to talk with a Kidde representative

Your name _____

Title _____

Company _____

Street _____

City _____ State _____ Zip _____

Phone _____